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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE APPLICATION OF:

Stephen D. BJORGAN, et al.

SERIAL NO: 10/748,146

GROUP: 2173

FILED:

December 31, 2003

EXAMINER:

FOR:

DYNAMICALLY MODIFIABLE KEYBOARD-STYLE INTERFACE

LETTER

Mail Stop DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith are an International Preliminary Report on Patentability and a Written Opinion for the Examiner's consideration. The reference(s) cited therein have been previously filed on April 10, 2006.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

ARRIVÉ COURGIER

Le

18 JUIL. 2006



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Date of mailing (day/month/year) 13 July 2006 (13.07.2006)

Applicant's or agent's file reference 05010 TO R

IMPORTANT NOTICE

International application No. PCT/EP2004/014334

International filing date (day/month/year)
16 December 2004 (16.12.2004)

Priority date (day/month/year) 31 December 2003 (31.12.2003)

Applicant

FRANCE TELECOM

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 05010	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/EP2004/014334	International filing date (day/month/year) 16 December 2004 (16.12.2004)	Priority date (day/month/year) 31 December 2003 (31.12.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant FRANCE TELECOM					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).			
2.	This REPORT consists of a total	of 7 sheets, including this cover sheet.		
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.		
3.	This report contains indications	relating to the following items:		
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. ΠΙ	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	The International Bureau will conot, except where the applicant of date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority		

Date of issuance of this report 03 July 2006 (03.07.2006) Authorized officer The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Agnes Wittmann-Regis Facsimile No. +41 22 338 82 70 e-mail: pt06@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

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From the	3	•
INTERNATIONAL	SEARCHING	AUTHORITY

То:

see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
		Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below		
International application No. International filing date PCT/EP2004/014334 16.12.2004		day/month/year)	Priority date (day/month/year) 31.12.2003	
International Patent Classification (IPC) or G06F3/033	both national classification	and IPC		
Applicant FRANCE TELECOM				

1.	This opinion	contains in	ndications	relating to	the	following	items:
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\boxtimes	Box No. I	Basis of the opinion
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
Ø	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
\boxtimes	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/014334

			
	Box	c No	o. I Basis of the opinion
1.			gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		lar	is opinion has been established on the basis of a translation from the original language into the following inguage , which is the language of a translation furnished for the purposes of international search and results 12.3 and 23.1(b)).
2.	With	h re ess	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	/pe	of material:
			a sequence listing
			table(s) related to the sequence listing
	b. fo	orm	at of material:
			in written format
	. [in computer readable form
	c. ti	me	of filing/furnishing:
		_	contained in the international application as filed.
			filed together with the international application in computer readable form.
			furnished subsequently to this Authority for the purposes of search.
3.		ha:	addition, in the case that more than one version or copy of a sequence listing and/or table relating theretos been filed or furnished, the required statements that the information in the subsequent or additional bies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4	Add	itio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/014334

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

lo: Claims

Inventive step (IS)

Yes: Claims

o: Claims 1-5

Industrial applicability (IA)

Yes: Claims

1-5

1-5

No: Claims

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Reference is made to the following documents

- **D1**: US 2003/174125 A1 (TORUNOGLU ILHAMI ET AL) 18 September 2003 (2003-09-18)
- D2: WO 01/93182 A (VKB INC; LIEBERMAN, KLONY; SHARON, YUVAL; NAIMI, EYAL; MAOR, YANIV; TS) 6 December 2001 (2001-12-06)
- **D3**: WO 02/057089 A (CLEAR TECHNOLOGIES, INC) 25 July 2002 (2002-07-25)
- D4: US 2003/128188 A1 (WILBRINK TIJS ET AL) 10 July 2003 (2003-07-10)

ITEM V (Novelty and Inventive Step)

1 INDEPENDENT CLAIM 1

- 1.1 The subject-matter of claim 1 of the present application does not meet the requirements of Article 33(1)(2) PCT for the following reasons.
- 1.2 Document D1 discloses the subject-matter of claim 1 as follows:"A dynamically configurable user-input interface for interacting with a user, comprising:
 - a projection unit for projecting (1) a first virtual interface including at least one of a virtual keyboard, a virtual mousepad and at least one virtual mouse button and (2) a second virtual interface including at least one of a virtual keyboard, a virtual mousepad and at least one virtual mouse button to be displayed in place of at least a portion of said first virtual interface (D1, [0023]-[0024], [0085], Fig 7: the system projects an input guide according to the current input mode; two possible modes are the keyboard mode and the mouse mode; these may be displayed in the same position on the display surface, either alterningly or simultaneously);
 - a motion sensor for determining a position on the first and second virtual interfaces that is interacted with by a user (**D1**, [0022]: the system detects the position of the user's fingers);
 - a communications controller for communicating the position on the first and second virtual interfaces outside of the user-input interface (**D1**, [0044]: the user-input is communicated, e.g. by a USB wired port or wirelessly via a Bluetooth port, to other devices); and
 - a controller for controlling the projection unit to switch from the first virtual interface to the second virtual interface (**D1**, [0023]: the system switches between the interfaces, either automatically, or when the user specifies a switch command thus the interface is dynamically configurable)."

- 1.3 Similary, document **D2** discloses the subject-matter of claim **1** as follows: "A dynamically configurable user-input interface for interacting with a user, comprising:
 - a projection unit for projecting (1) a first virtual interface including at least one of a virtual keyboard, a virtual mousepad and at least one virtual mouse button and (2) a second virtual interface including at least one of a virtual keyboard, a virtual mousepad and at least one virtual mouse button to be displayed in place of at least a portion of said first virtual interface (**D2**, page 1, line 28-page 2, line 3, page 4, lines 20-24: two different key layouts for two different languages are projected on the same keys of a virtual keyboard);
 - a motion sensor for determining a position on the first and second virtual interfaces that is interacted with by a user (**D2**, page 2, lines 4-7);
 - a communications controller for communicating the position on the first and second virtual interfaces outside of the user-input interface (**D2**, page 2, lines 7-8); and
 - a controller for controlling the projection unit to switch from the first virtual interface to the second virtual interface (**D2**, page 4, lines 20-24, page 16, line 32-page 17, line18: the system switches between the interfaces)."

2 DEPENDENT CLAIMS 2-5

- 2.1 The subject-matter of claims **2-5** of the present application does not meet the requirements of Article 33(1)-(3) PCT for the following reasons.
- 2.2 Document **D1** discloses or renders obvious the subject-matter of claims **2-5** as follows:
- 2.2.1 Claim 2: directed towards comprising keyboards for two different languages (D1, [0046], [0061]: the system provides a QWERTY keyboard [0046]; moreover the input guide can take any form deemed appropriate by the skilled person this may for example be a numeric keyboard [0061]; thus it would be obvious to the skilled person to implement a second keyboard interface with a different key layout according to the circumstances, e.g. for a different language such as the binary computer language that uses 0 and 1 or any other written language, without the use of any inventive skill).
- 2.2.2 Claim 3 and 4: directed towards the virtual interfaces comprising a mousepad, possibly with mouse buttons, and a keyboard (D1, [0023], [0046], [0085])
- 2.2.3 Claim 5: directed towards comprising a telephone interface (D1, [0017],

[0042], [0046], [0061], Fig 1: the system provides a phone button - see Fig 1, top row of the virtual keyboard, third button from the left - and is designed to be used as an interface to a telephone - see [0042]; moreover the input guide can take any form deemed appropriate by the skilled person, such as a numeric keyboard - see [0046], [0061]; thus it would be obvious to the skilled person to implement a phone interface to interact with a telephone according to the circumstances, without the use of any inventive skill).

- 2.3 Document **D2** discloses or renders obvious the subject-matter of claims **2** and **5** as follows:
- Claim 2: directed towards comprising keyboards for two different languages (**D2**, page 4, lines 20-24, page 16, line 32-page 17, line18).
- Claim 3 and 4: directed towards the virtual interfaces comprising a mousepad, possibly with mouse buttons, and a keyboard (D2, page 1, line 28-page 2, line 3, page 4, lines 20-24: the possibility of displaying a virtual keyboards or a virtual mouse with mouse button is disclosed; also the switching between two different keyboard layouts is disclosed; it would be obvious to the person skilled in the art, to modify the system in such a manner that the switching is between a keyboard and a mouse, with or without mouse buttons, as deemed suitable according to the circumstances, without use of any inventive skill)
- 2.3.3 Claim **5**: directed towards comprising a telephone interface (**D2**, page 2, line 3).

COMMENTS

3 It is not at present apparent which part of the application could serve as a basis for a new claim meeting the requirements of Article 33(1) PCT.

ITEM VII (Form and Content)

- The independent claims are not in the two-part form with respect to the closest prior art **D1**, and do therefore not meet the requirements of Rule 6.3 (b) PCT.
- The features of the claims are not provided with reference signs placed in parentheses, and do therefore not meet the requirements of Rule 6.2(b) PCT.
- The relevant prior art documents **D1-D4** are not identified in the description. The application does therefore not meet the requirements of Rule 5.1 (a)(ii) PCT.